

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An optical apparatus comprising:
 - an optical member constituting the optical apparatus;
 - memory means for memorizing preset position information and preset speed information; wherein said preset position information corresponds to a position to which an operator intends to move said optical member when operating said optical apparatus and said preset speed information corresponds to a speed with which the operator intends to move said optical member when operating said optical apparatus;
 - memory instructing operation means to be operated for causing said memory means to ~~memorized~~ memorize the preset speed information; and
 - control means for executing preset drive control on said optical member;
 - wherein said control means is adapted to cause said memory means to memorize arbitrary preset speed information in response to the operation of said memory instructing operation means, and to drive said optical member to a position corresponding to said memorized preset position information with a speed corresponding to said memorized preset speed information.
2. (previously presented) An optical apparatus according to claim 1, wherein:
 - said control means is adapted, when said optical member is driven and said memory instructing operation means is operated, to cause said memory means to

memorize the actual drive speed of said optical member at the time of operation of said memory instructing operation means as the preset speed information.

3. (previously presented) An optical apparatus according to claim 1, further comprising:

drive instructing operation means to be operated for generating a drive speed command for said optical member corresponding to the operation amount;

wherein said control means is adapted, when said drive instructing operation means is operated and said memory instructing operation means is operated, to cause said memory means to memorize the drive speed command at the time of operation of said memory instructing operation means as the preset speed information.

4. (previously presented) An optical apparatus according to claim 1, wherein:

said control means is adapted, in the execution of said preset drive control, to compare the actual drive speed of said optical member with a drive speed corresponding to the preset speed information and to control to increase or decrease the actual drive speed of said optical member in such a manner that said two drive speeds substantially coincide.

5. (previously presented) An optical apparatus according to claim 1, further comprising display means for displaying that said preset drive control is executed.

6. (previously presented) An optical apparatus according to claim 1, further comprising:

speed selecting operation means to be operated for selecting the drive speed of said optical member either at a drive speed corresponding to the preset speed information or at a maximum drivable speed;

wherein said control means is adapted to drive said optical member with the drive speed selected by said speed selecting operation means.

7. (previously presented) An optical apparatus according to claim 1, further comprising control starting operation means to be operated for starting said preset drive control.
8. (previously presented) An optical apparatus according to claim 7, wherein said control means is adapted to interrupt said preset drive control in response to the operation of said control starting operation means in the course of said preset drive control.
9. (previously presented) An optical apparatus according to claim 1, further comprising:
drive instructing operation means to be operated for generating a drive speed command for said optical member according to the operation amount;
wherein said control means is adapted to interrupt said preset drive control in response to the operation
of said drive starting operation means in the course of said preset drive control.
10. (previously presented) An optical apparatus according to claim 1, further comprising:
position detection means for detecting the actual drive position of said optical member;

wherein said control means is adapted, in response to the operation of said memory instructing operation means, to cause said memory means to memorize the actual drive position of said optical member detected by said position detection means as the preset position information.

11. (previously presented) An optical apparatus according to claim 10, further comprising:

control starting operation means to be operated for starting the preset drive control;

wherein said control means is adapted, in response to the operation of said memory instructing operation means and to the operation of said control starting operation means, to cause said memory means to memorize the actual drive position of said optical member detected by said position detection means as the preset position information.

12. (previously presented) An optical apparatus according to claim 11, wherein:

said control means is adapted, in response to the operation of said control starting operation means while said memory instructing operation means is operated or simultaneous with the operation of said memory instructing operation means, to cause said memory means to memorized the actual drive position of said optical member detected by said position detection means as the preset position information.

13. (currently amended) An optical apparatus drive unit to be mounted on or connected to a main body of an optical apparatus including an optical member, the drive unit comprising:

memory means for memorizing preset position information and preset speed information; wherein said preset position information corresponds to a position to which an operator intends to move said optical member when operating said optical apparatus and said preset speed information corresponds to a speed with which the operator intends to move said optical member when operating said optical apparatus;

memory instructing operation means to be operated for causing said memory means to memorize the preset speed information; and

control means for executing preset drive control on said optical member;

wherein said control means is adapted to cause said memory means to memorize arbitrary preset speed information in response to the operation of said memory instructing operation means, and to drive said optical member to a position corresponding to said memorized preset position information with a speed corresponding to said memorized preset speed information.

14. (previously presented) An optical apparatus drive unit according to claim 13, wherein:

said control means is adapted, when said optical member is driven and said memory instructing operation means is operated, to cause said memory means to memorize the actual drive speed of said optical member at the time of operation of said memory instructing operation means as the preset speed information.

15. (previously presented) An optical apparatus drive unit according to claim 13, further comprising:

drive instructing operation means to be operated for generating a drive speed command for said optical member corresponding to the operation amount;

wherein said control means is adapted, when said drive instructing operation means is operated and said memory instructing operation means is operated, to cause said memory means to memorize the drive speed command at the time of operation of said memory instructing operation means as the preset speed information.

16. (previously presented) An optical apparatus drive unit according to claim 13, wherein:

said control means is adapted, in the execution of said preset drive control, to compare the actual drive speed of said optical member with a drive speed

corresponding to the preset speed information and to control to increase or decrease the actual drive speed of said optical member in such a manner that said two drive speeds substantially coincide.

17. (previously presented) An optical apparatus drive unit according to claim 13, further comprising display means for displaying that said preset drive control is executed.

18. (previously presented) An optical apparatus drive unit according to claim 13, further comprising:

speed selecting operation means to be operated for selecting the drive speed of said optical member either at a drive speed corresponding to the preset speed information or at a maximum drivable speed;

wherein said control means is adapted to drive said optical member with the drive speed selected by said speed selecting operation means.

19. (previously presented) An optical apparatus drive unit according to claim 13, further comprising control starting operation means to be operated for starting said preset drive control.
20. (previously presented) An optical apparatus drive unit according to claim 19, wherein said control means is adapted to interrupt said preset drive control in response to the operation of said control starting operation means in the course of said preset drive control.
21. (previously presented) An optical apparatus drive unit according to claim 13, further comprising:

drive instructing operation means to be operated for generating a drive speed command for said optical member according to the operation amount;

wherein said control means is adapted to interrupt said preset drive control in response to the operation of said drive starting operation means in the course of said preset drive control.

22. (previously presented) An optical apparatus drive unit according to claim 13, further comprising:

position detection means for detecting the actual drive position of said optical member;

wherein said control means is adapted, in response to the operation of said memory instructing operation means, to cause said memory means to memorize the actual drive position of said optical member detected by said position detection means as the preset position information.

23. (previously presented) An optical apparatus drive unit according to claim 22, further comprising:

control starting operation means to be operated
for starting the preset drive control;

wherein said control means is adapted, in response to the operation of said memory instructing operation means and to the operation of said control starting operation means, to cause said memory means to memorize the actual drive position of said optical member detected by said position detection means as the preset position information.

24. (previously presented) An optical apparatus drive unit according to claim 23, wherein:

said control means is adapted, in response to the operation of said control starting operation means while said memory instructing operation means is operated or simultaneous with the operation of said memory instructing operation means, to cause

said memory means to memorize the actual drive position of said optical member detected by said position detection means as the preset position information.

25. (currently amended) A camera system including a camera on which an optical apparatus is mounted, the camera system comprising:

an optical member constituting the optical apparatus;

memory means for memorizing preset position information and preset speed information; wherein said preset position information corresponds to a position to which an operator intends to move said optical member when operating said optical apparatus and said preset speed information corresponds to a speed with which the operator intends to move said optical member when operating said optical apparatus;

memory instructing operation means to be operated for causing said memory means to memorize the preset speed information; and

control means for executing preset drive control on said optical member;

wherein said control means is adapted to cause said memory means to memorize arbitrary preset speed information in response to the operation of said memory instructing operation means, and to drive said optical member to a position corresponding to said memorized preset position information with a speed corresponding to said memorized preset speed information.

26. (previously presented) A camera system according to claim 25, wherein:

said control means is adapted, when said optical member is driven and said memory instructing operation means is operated, to cause said memory means to

memorize the actual drive speed of said optical member at the time of operation of said memory instructing operation means as the preset speed information.

27. (previously presented) A camera system according to claim 25, further comprising:

drive instructing operation means to be operated for generating a drive speed command for said optical member corresponding to the operation amount;

wherein said control means is adapted, when said drive instruction operation means is operated and said memory instructing operation means is operated, to cause said memory means to memorize the drive speed command at the time of operation of said memory instructing operation means as the preset speed information.

28. (previously presented) A camera system according to claim 25, further comprising:

speed selecting operation means to be operated for selecting the drive speed of said optical member either at a drive speed corresponding to the preset speed information or at a maximum drivable speed;

wherein said control means is adapted to drive said optical member with the drive speed selected by said speed selecting operation means.

29. (currently amended) An optical apparatus comprising:

an optical member constituting the optical apparatus;

memory means for memorizing preset speed information and preset direction information;

memory instructing operation means to be operated for causing said memory means to memorize the preset speed information and the preset direction information; wherein said preset speed information corresponds to a speed with which an operator intends to move said optical member when operating said optical apparatus, and said preset direction information corresponds to a direction in which the operator intends to move said optical member when operating said optical apparatus, and

control means for executing preset drive control on said optical member;

wherein said control means is adapted to cause said memory means to memorize arbitrary preset speed information and arbitrary preset direction information in response to the operation of said memory instructing operation means, and to drive said optical member with a speed corresponding to said memorized preset speed information and in a direction corresponding to said memorized preset direction information.

30. (previously presented) An optical apparatus according to claim 29, wherein:

said control means is adapted, when said optical member is driven and said memory instructing operation means is operated, to cause said memory means to memorize the actual drive speed of said optical member at the time of operation of said memory instructing operation means as the preset speed information.

31. (previously presented) An optical apparatus according to claim 29, further comprising:

drive instructing operation means to be operated for generating a drive speed command for said optical member corresponding to the operation amount;

wherein said control means is adapted, when said drive instruction operation means is operated and said memory instructing operation means is operated, to cause said memory means to memorize the drive speed command at the time of operation of said memory instructing operation means as the preset speed information.

32. (previously presented) An optical apparatus according to claim 29, wherein:

said control means is adapted, when said optical member is driven and said memory instructing operation means is operated, to cause said memory means to memorize the actual drive direction of optical adjustment means at the time of operation of said memory instructing operation means as the preset direction information.

33. (previously presented) An optical apparatus according to claim 29, further comprising:

drive instructing operation means to be operated for generating a drive direction command for said optical member corresponding to the operation direction;

wherein said control means is adapted, when said drive instruction operation means is operated and said memory instructing operation means is operated, to cause said memory means to memorize the drive direction command at the time of operation of said memory instructing operation means as the preset direction information.

34. (previously presented) An optical apparatus according to claim 29, wherein:

said control means is adapted, in the execution of said preset drive control, to compare the actual drive speed of said optical member with a drive speed corresponding to the preset speed information and to control to increase or decrease the actual drive

speed of said optical member in such a manner that said two drive speeds substantially coincide.

35. (previously presented) An optical apparatus according to claim 29, further comprising display means for displaying that said preset drive control is executed.
36. (previously presented) An optical apparatus according to claim 29, further comprising:
speed selecting operation means to be operated for selecting the drive speed of said optical member either at a drive speed corresponding to the preset speed information or at a maximum drivable speed;
wherein said control means is adapted to drive said optical member with the drive speed selected by said speed selecting operation means.
37. (previously presented) An optical apparatus according to claim 29, further comprising control starting operation means to be operated for starting said preset drive control.
38. (previously presented) An optical apparatus according to claim 37, wherein said control means is adapted to interrupt said preset drive control in response to the operation of said control starting operation means in the course of said preset drive control.
39. (previously presented) An optical apparatus according to claim 29, further comprising:

drive instructing operation means to be operated for generating a drive command for said optical member according to at least either of the operation amount and the operation direction;

wherein said control means is adapted to interrupt said preset drive control in response to the operation of said drive instructing operation means in the course of said preset drive control.

40. (currently amended) An optical apparatus drive unit to be mounted on or connected to a main body of an optical apparatus including an optical member, the drive unit comprising:

memory means for memorizing preset speed information and preset direction information[[:]], wherein said preset speed information corresponds to a speed with which an operator intends to move said optical member when operating said optical apparatus, and said preset direction information corresponds to a direction in which the operator intends to move said optical member when operating said optical apparatus;

memory instructing operation means to be operated for causing said memory means to memorize the preset speed information and the preset direction information; and

control means for executing preset drive control on said optical member;

wherein said control means is adapted to cause said memory means to memorize arbitrary preset speed information and arbitrary preset direction information in response to the operation of said memory instructing operation means, and to drive said optical member with a speed corresponding to said memorized preset speed information and in a direction corresponding to said memorized preset direction information.

41. (previously presented) An optical apparatus drive unit according to claim 40, wherein:
- said control means is adapted, when said optical member is driven and said memory instructing operation means is operated, to cause said memory means to memorize the actual drive speed of said optical member at the time of operation of said memory instructing operation means as the preset speed information.
42. (previously presented) An optical apparatus drive unit according to claim 40, further comprising:
- drive instructing operation means to be operated for generating a drive speed command for said optical member corresponding to the operation amount;
- wherein said control means is adapted, when said drive instruction operation means is operated and said memory instructing operation means is operated, to cause said memory means to memorize the drive speed command at the time of operation of said memory instructing operation means as the preset speed information.
43. (previously presented) An optical apparatus drive unit according to claim 40, wherein:
- said control means is adapted, when said optical member is driven and said memory instructing operation means is operated, to cause said memory means to memorize the actual drive direction of said optical member at the time of operation of said memory instructing operation means as the preset direction information.

44. (previously presented) An optical apparatus drive unit according to claim 40, further comprising:

drive instructing operation means to be operated for generating a drive direction command for said optical member corresponding to the operation direction;

wherein said control means is adapted, when said drive instruction operation means is operated and said

memory instructing operation means is operated, to cause said memory means to memorize the drive direction command at the time of operation of said memory instructing operation means as the preset direction information.

45. (previously presented) An optical apparatus drive unit according to claim 40, wherein:

said control means is adapted, in the execution of said preset drive control, to compare the actual drive speed of said optical member with a drive speed corresponding to the preset speed information and to control to increase or decrease the actual drive speed of said optical member in such a manner that said two drive speeds substantially coincide.

46. (previously presented) An optical apparatus drive unit according to claim 40, further comprising display means for displaying that said preset drive control is executed.

47. (previously presented) An optical apparatus drive unit according to claim 40, further comprising:

speed selecting operation means to be operated for selecting the drive speed of said optical member either at a drive speed corresponding to the preset speed information or at a maximum drivable speed;

wherein said control means is adapted to drive

said optical member with the drive speed selected by said speed selecting operation means.

48. (previously presented) An optical apparatus drive unit according to claim 40, further comprising control starting operation means to be operated for starting said preset drive control.

49. (previously presented) An optical apparatus drive unit according to claim 48, wherein said control means is adapted to interrupt said preset drive control in response to the operation of said control starting operation means in the course of said preset drive control.

50. (previously presented) An optical apparatus drive unit according to claim 40, further comprising:

drive instructing operation means to be operated for generating a drive command for said optical member according to at least either of the operation amount and the operation direction;

wherein said control means is adapted to interrupt said preset drive control in response to the operation of said drive instructing operation means in the course of said preset drive control.

51. (currently amended) A camera system including a camera on which an optical apparatus is mounted, the camera system comprising:

an optical member constituting the optical apparatus;

memory means for memorizing preset speed information and preset direction information, wherein said preset speed information corresponds to a speed with which an operator intends to move said optical member when operating said optical apparatus, and said preset direction information corresponds to a direction in which the operator intends to move said optical member when operating said optical apparatus;

memory instructing operation means to be operated for causing said memory means to memorize the preset speed information and the preset direction information; and control means for executing preset drive control on said optical member;

wherein said control means is adapted to cause said memory means to memorize arbitrary preset zoom speed information and arbitrary preset direction information in response to the operation of said memory instructing operation means, and to drive said optical member with a speed corresponding to said memorized preset speed information in a direction corresponding to said memorized preset direction information.

52. (previously presented) A camera system according to claim 51, wherein:

said control means is adapted, when said optical member is driven and said memory instructing operation means is operated, to cause said memory means to memorize the actual drive speed of said optical member at the time of operation of said memory instructing

operation means as the preset speed information.

53. (previously presented) A camera system according to claim 51, further comprising:

drive instructing operation means to be operated for generating a drive speed command for said optical member corresponding to the operation amount;

wherein said control means is adapted, when said drive instruction operation means is operated and said memory instructing operation means is operated, to cause said memory means to memorize the drive speed command at the time of operation of said memory instructing operation means as the preset speed information.

54. (previously presented) A camera system according to claim 51, further comprising:

speed selecting operation means to be operated for selecting the drive speed of said optical member either at a drive speed corresponding to the preset speed information or at a maximum drivable speed;

wherein said control means is adapted to drive said optical member with the drive speed selected by said speed selecting operation means.